



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**Region 6 Laboratory**

Environmental Services Branch  
10625 Fallstone Road, Houston, TX 77099  
Phone: (281)983-2100 Fax: (281)983-2248

**Final Analytical Report**

Site Name -----Oil Trust Fund  
Sample Collection Date(s)-- 07/14/10  
Contact----- Rich Mayer (6PD-F)  
Report Date-----07/20/10  
Project #----- 10REG203  
Work Order(s)-----1007022

**Analyses included in this report:**

LC DOSS

**Report Narrative**

Samples 1007022-07 and 1007022-08 were re-extracted due to surrogate failure. Only the re-extraction results (1007022-07RE1 and 1007022-08RE1) are reported.

No DOSS was found above the reporting limit in any of the samples.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

**Report Approvals:**

\_\_\_\_\_  
Richard McMillin  
Region 6 Laboratory Manager

\_\_\_\_\_  
David Neleigh  
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road  
Houston, Texas 77099

**Sample Receipt and Disposal**

Site Name: Oil Trust Fund

Project Number: 10REG203

Data Management Coordinator: Christy Warren

\_\_\_\_\_  
Data Management Coordinator Signature

\_\_\_\_\_  
Date

Date Transmitted: \_\_\_\_/\_\_\_\_/\_\_\_\_

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren  
Data Management Coordinator  
Region 6 Laboratory  
6MD-HS

\_\_\_\_\_  
Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Please provide a reason for holding:



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**ANALYTICAL REPORT FOR SAMPLES**

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
T007-1327-100714-SW-1	1007022-01	Liquid	7/14/10 10:55	07/15/10 09:25
T007-1331-100714-SW-1	1007022-02	Liquid	7/14/10 9:25	07/15/10 09:25
T007-1331-100714-SW-2	1007022-03	Liquid	7/14/10 9:25	07/15/10 09:25
T007-2336-100714-SW-1	1007022-04	Liquid	7/14/10 10:20	07/15/10 09:25
T007-BG01-100714-SW-1	1007022-05	Liquid	7/14/10 14:00	07/15/10 09:25
T005-1333-100714-SW-1	1007022-06	Liquid	7/14/10 11:05	07/15/10 09:25
T005-2331-100714-SW-1	1007022-07	Liquid	7/14/10 8:45	07/15/10 09:25
T005-SC038-100714-SW-1	1007022-08	Liquid	7/14/10 10:30	07/15/10 09:25
T001-2001-100714-SW-1	1007022-09	Liquid	7/14/10 9:45	07/15/10 09:25
T001-2002-100714-SW-1	1007022-10	Liquid	7/14/10 10:45	07/15/10 09:25
T001-2003-100714-SW-1	1007022-11	Liquid	7/14/10 11:30	07/15/10 09:25



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**DOSS by LC/MS/MS**

**Lab ID: 1007022-01**

**Station ID: T007-1327-100714-SW-1**

Batch: B0G1501

Date Collected: 07/14/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	144		82.5	50-150	07/15/10	07/17/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diocetyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10	07/17/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.



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**DOSS by LC/MS/MS**

**Lab ID: 1007022-02**

**Station ID: T007-1331-100714-SW-1**

Batch: B0G1501

Date Collected: 07/14/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	140		80.4	50-150	07/15/10	07/17/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10	07/17/10

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**DOSS by LC/MS/MS**

**Lab ID: 1007022-03**

**Station ID: T007-1331-100714-SW-2**

Batch: B0G1501

Date Collected: 07/14/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	143		82.4	50-150	07/15/10	07/17/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10	07/17/10

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**DOSS by LC/MS/MS**

**Lab ID: 1007022-04**

**Station ID: T007-2336-100714-SW-1**

Batch: B0G1501

Date Collected: 07/14/10

Sample Type: Liquid

Sample Volume: 24 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	138		82.8	50-150	07/15/10	07/17/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.2	1	07/15/10	07/17/10

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**DOSS by LC/MS/MS**

**Lab ID: 1007022-05**

**Station ID: T007-BG01-100714-SW-1**

Batch: B0G1501

Date Collected: 07/14/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	129		74.0	50-150	07/15/10	07/17/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10	07/17/10

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**DOSS by LC/MS/MS**

**Lab ID: 1007022-06**

**Station ID: T005-1333-100714-SW-1**

Batch: B0G1501

Date Collected: 07/14/10

Sample Type: Liquid

Sample Volume: 22 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	149		81.7	50-150	07/15/10	07/17/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10	07/17/10

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**DOSS by LC/MS/MS**

**Lab ID: 1007022-07RE1**

**Station ID: T005-2331-100714-SW-1**

Batch: B0G1901

Date Collected: 07/14/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	124		71.5	50-150	07/19/10	07/19/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/19/10	07/19/10

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**DOSS by LC/MS/MS**

**Lab ID: 1007022-08RE1**

**Station ID: T005-SC038-100714-SW-1**

Batch: B0G1901

Date Collected: 07/14/10

Sample Type: Liquid

Sample Volume: 22 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	144		79.3	50-150	07/19/10	07/19/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/19/10	07/19/10

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**DOSS by LC/MS/MS**

**Lab ID: 1007022-09**

**Station ID: T001-2001-100714-SW-1**

Batch: B0G1501

Date Collected: 07/14/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	148		85.3	50-150	07/15/10	07/17/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10	07/17/10

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**DOSS by LC/MS/MS**

**Lab ID: 1007022-10**

**Station ID: T001-2002-100714-SW-1**

Batch: B0G1501

Date Collected: 07/14/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	150		86.4	50-150	07/15/10	07/17/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10	07/17/10

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**DOSS by LC/MS/MS**

**Lab ID: 1007022-11**

**Station ID: T001-2003-100714-SW-1**

Batch: B0G1501

Date Collected: 07/14/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

**Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	153		88.0	50-150	07/15/10	07/17/10

**Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10	07/17/10

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**DOSS by LC/MS/MS - Quality Control**

**Batch: B0G1501**

**Sample Type: Liquid**

**Blank (B0G1501-BLK1)**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	164		200	82.0 50-150

**Blank (B0G1501-BLK1)**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	U		20.0		

**LCS (B0G1501-BS1)**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	172		200	86.0 50-150

**LCS (B0G1501-BS1)**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	89.3		20.0	101	88.4 50-150	



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**DOSS by LC/MS/MS - Quality Control**

**Batch: B0G1501**

**Sample Type: Liquid**

**Matrix Spike (B0G1501-MS1)**

**Source: 1007022-04**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	148		174	85.3 50-150

**Matrix Spike (B0G1501-MS1)**

**Source: 1007022-04**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	85.1		19.1	87.8	U	96.9 50-150	

**Matrix Spike (B0G1501-MS2)**

**Source: 1007022-11**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	146		167	87.8 50-150

**Matrix Spike (B0G1501-MS2)**

**Source: 1007022-11**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	86.5		19.2	84.2	U	103 50-150	





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**DOSS by LC/MS/MS - Quality Control**

**Batch: B0G1501**

**Sample Type: Liquid**

**Matrix Spike Dup (B0G1501-MSD1)**

**Source: 1007022-04**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	143		174	81.9 50-150

**Matrix Spike Dup (B0G1501-MSD1)**

**Source: 1007022-04**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	82.7		19.1	87.8	U	94.2 50-150	2.85 30

**Matrix Spike Dup (B0G1501-MSD2)**

**Source: 1007022-11**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	146		174	83.7 50-150

**Matrix Spike Dup (B0G1501-MSD2)**

**Source: 1007022-11**

Prepared: 7/15/2010 Analyzed: 7/17/2010

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	89.7		19.1	87.8	U	102 50-150	3.59 30



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**DOSS by LC/MS/MS - Quality Control**

**Batch: B0G1901**

**Sample Type: Liquid**

**Blank (B0G1901-BLK1)**

Prepared: 7/19/2010 Analyzed: 7/19/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	136		200	68.1 50-150

**Blank (B0G1901-BLK1)**

Prepared: 7/19/2010 Analyzed: 7/19/2010

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	U		20.0		

**LCS (B0G1901-BS1)**

Prepared: 7/19/2010 Analyzed: 7/19/2010

**Surrogates**

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	139		200	69.5 50-150

**LCS (B0G1901-BS1)**

Prepared: 7/19/2010 Analyzed: 7/19/2010

**Targets**

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	102		20.0	101	101 50-150	









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## Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.